TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.

re - Application For Research Grant # 82 A

Date: April 28, 1955

1. Name of Investigator: (a) Milton S. Saslaw, M.D.
2. Anticipated Duration of Work: (b) Murray M. Streitfeld, Ph.D.

2. Title: (a) Director of Medical Research
3. Facilities and Staff Available: (b) Bacteriologist

3. Institution & Address: National Children's Cardiac Hospital
4250 West Flagler Street
Miami 34, Florida

4. Project or Subject:

"Effects of Smoking on Beta Hemolytic Streptococci"

Studies will be made to determine:

A. Prevalence of beta hemolytic streptococci in the throats of adults: smokers vs. non-smokers.

B. Influence of smoking on systemic response to these organisms.

C. In vitro effects of various components of tobacco and smoke on growth of these organisms.

The findings may have particular significance in persons with rheumatic fever or rheumatic heart disease.

5. Detailed Plan of Procedure (Use reverse side if additional space is needed):

Studies (1,2,3) during the past three years have established the presence of Group A beta hemolytic streptococci in the throats of 37.9 percent of school children in Dade County, Florida. The proposed study will determine the extent to which this rate applies to adults, and how it is influenced by smoking.

The plan of procedure is as follows:

A. Throat cultures will be taken from smokers and non-smokers, in sufficient numbers to provide adequate statistical data. All beta hemolytic streptococcal isolates will be grouped and typed.

B. Blood samples will be drawn simultaneously from each subject for antistreptolysin O determinations.

C. Smoking habits will be determined in each case, considering the following factors:

(a) Extent of Smoking - light or heavy smoker or non-smoker
(b) Type of Smoking - cigarette, cigar or pipe
(c) Filtered vs. non-filtered cigarettes
(d) Duration of smoking habit
(e) Inhalation vs. non-inhalation
(f) Interval between taking of last smoke and throat culture

Signature /s/ Milton S. Saslaw, M.D.
Director of Project

/s/ J. [illegible], Exec. Secy.
Business Officer of the Institution

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5. Detailed Plan of Procedure (continued)

D. Various tobacco and smoke products will be investigated for their effects on the growth of beta hemolytic streptococci in vitro.

E. Findings will be evaluated and their significance indicated.

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(1) Saslaw, M.S. and Steitfeld, M.M.: Group A Beta Hemolytic Streptococci and Rheumatic Fever in Miami, Fla., Pub. Health Repts. 69: 877-822 (Sept.) 1954.

(2) Saslaw, M.S., Streitfeld, M.M. and Doff, S.D.: Group A Beta Hemolytic Streptococci and Rheumatic Fever in Miami, Fla.: Bacteriologic and Serologic Studies from October, 1953 through May, 1954. (in manuscript)

(3) Saslaw, M.S., Streitfeld, M.M., and Williams, E., Jr.: Use of An Antistreptolysin O Index for Comparison of Large Samples: Experience in Miami, Florida, Clin. Res. Proc. 3: 77 (Feb.) 1955

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Source: https://www.industrydocuments.ucsf.edu/docs/mrpl0000

6. Budget Plan: (1st year)

Salaries	$5,860.00
Expendable Supplies	1,400.00
Permanent Equipment	- - - - -
Overhead	640.00
Other	750.00
Total	$8,650.00

7. Anticipated Duration of Work: (a) 2 years (b) 2 years

8. Facilities and Staff Available:

Facilities: (a) Bacteriology Laboratory
(b) Autoclave
(c) Dry Heat Oven
(d) Water-baths
(e) pH meter
(f) Incubators
(g) Arnold Sterilizer
(h) Deep Freeze and Refrigerators

Staff: (a) Milton S. Saslaw, M.D.
(b) Murray M. Streitfeld, Ph.D.
(c) Ruth Rosen (Technician)

9. Additional Requirements:

1. Technician (additional) $3,000.00
2. Clerical Help 2,860.00
3. Expendable Supplies:
(a) Culture Media 300.00
(b) Additional Glassware 200.00
(c) Sheep's Blood 200.00
(d) Streptolysin O 300.00
(e) Postage, stationery, forms, etc. 400.00
4. Other Publications, travel to source material
Series (1,2,3) and conventions 750.00

10. Additional Information (Including relation of work to other projects and other sources of supply):

A general study of streptococcal patterns is currently under way. This is supported by the National Children's Cardiac Hospital, Florida State Board of Health, and a research grant from the United State Public Health Service. The request submitted herewith will permit expansion of the program to include the effects of smoking and tobacco products on the prevalence and growth of beta hemolytic streptococci.

Signature /s/ Milton S. Saslaw, M.D.
Director of Project

/s/ J. Jacobs, Exec. Secy.
Business Officer of the Institution

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